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Title:System and Method for Integration of Health Care
Records
Inventor: Carl D. Dvorak, et al.
Figure 1
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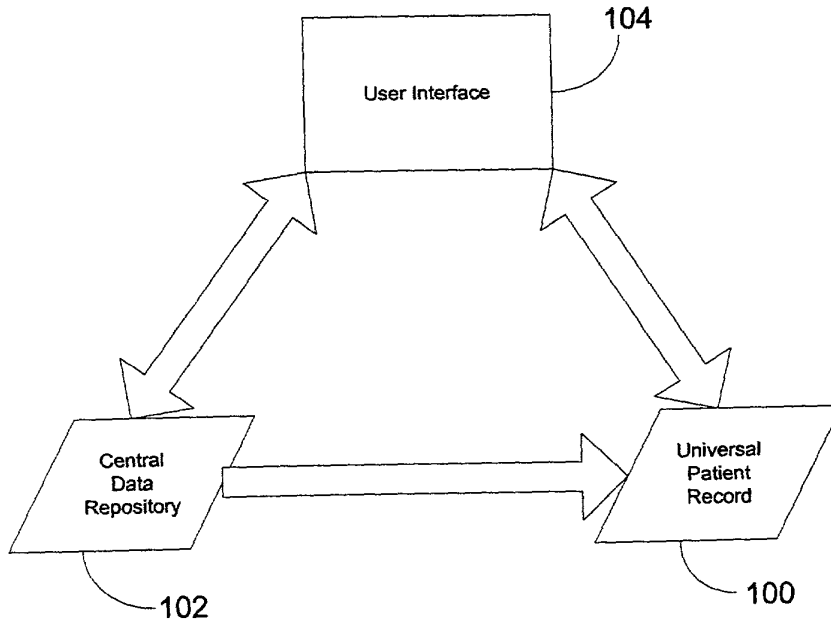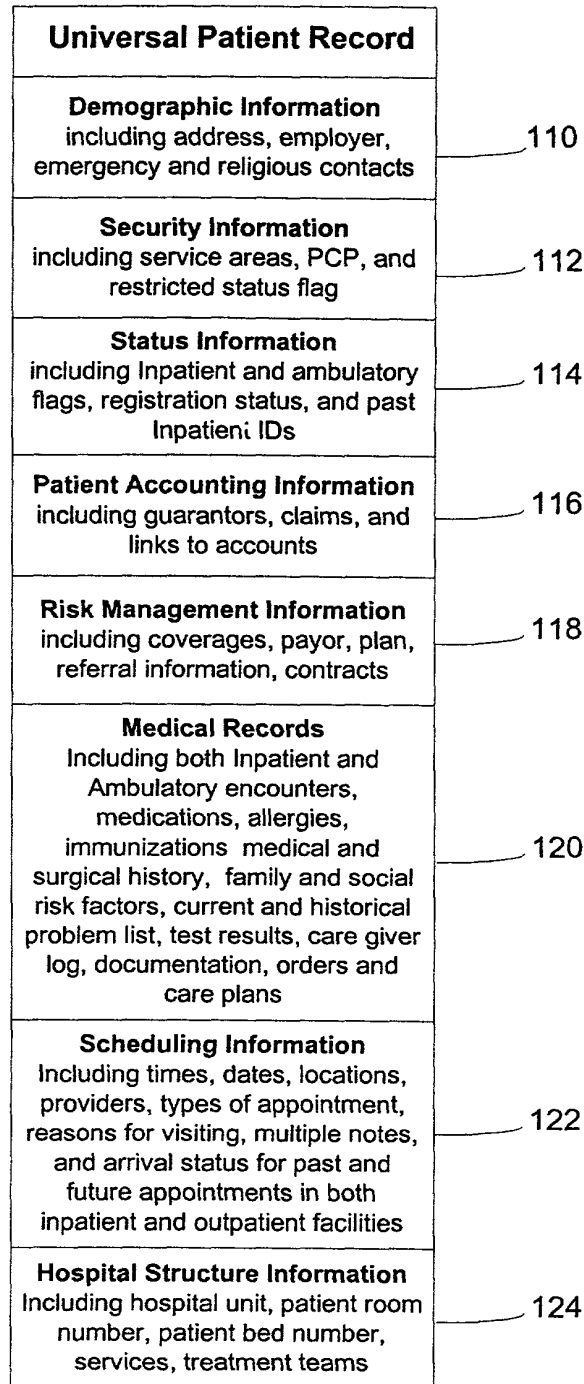
Figure 1

Figure 2

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Universal Patient Record
Demographic Information including address, employer, emergency and religious contacts
Security Information including service areas, PCP, and restricted status flag
Status Information including Inpatient and ambulatory flags, registration status, and past Inpatient IDs
Patient Accounting Information including guarantors, claims, and links to accounts
Risk Management Information including coverages, payor, plan, referral information, contracts
Medical Records Including both Inpatient and Ambulatory encounters, medications, allergies, immunizations medical and surgical history, family and social risk factors, current and historical problem list, test results, care giver log, documentation, orders and care plans
Scheduling Information Including times, dates, locations, providers, types of appointment, reasons for visiting, multiple notes, and arrival status for past and future appointments in both inpatient and outpatient facilities
Hospital Structure Information Including hospital unit, patient room number, patient bed number, services, treatment teams

110

112

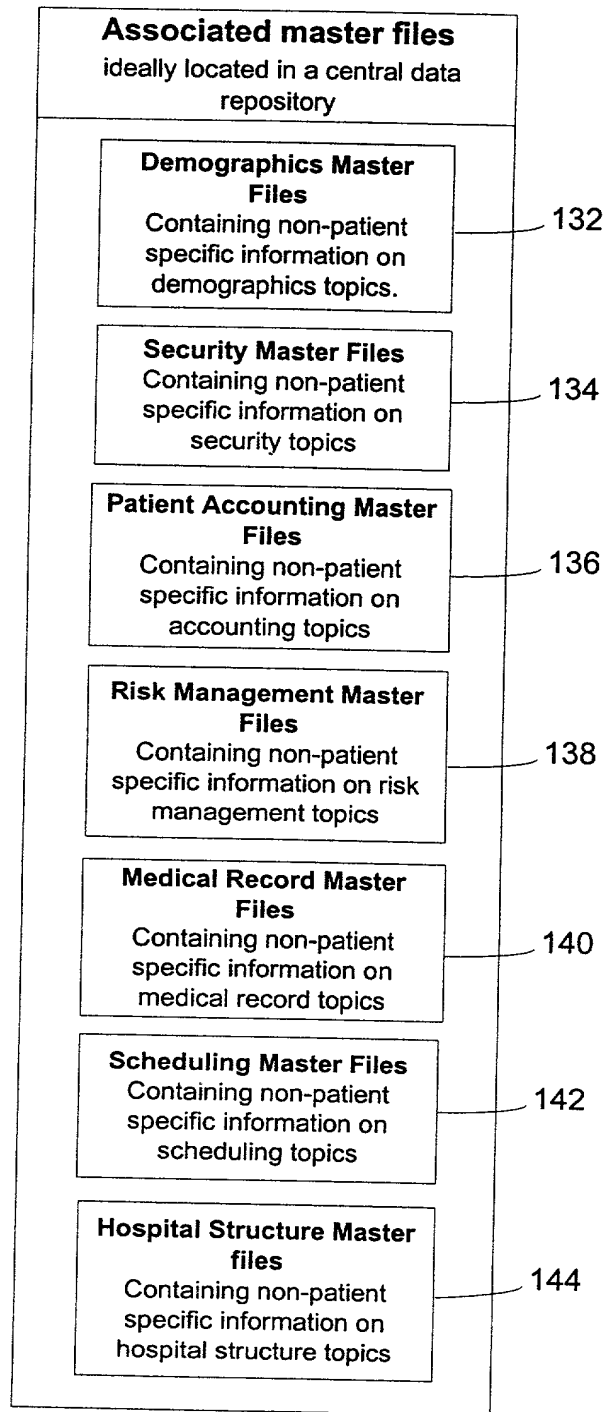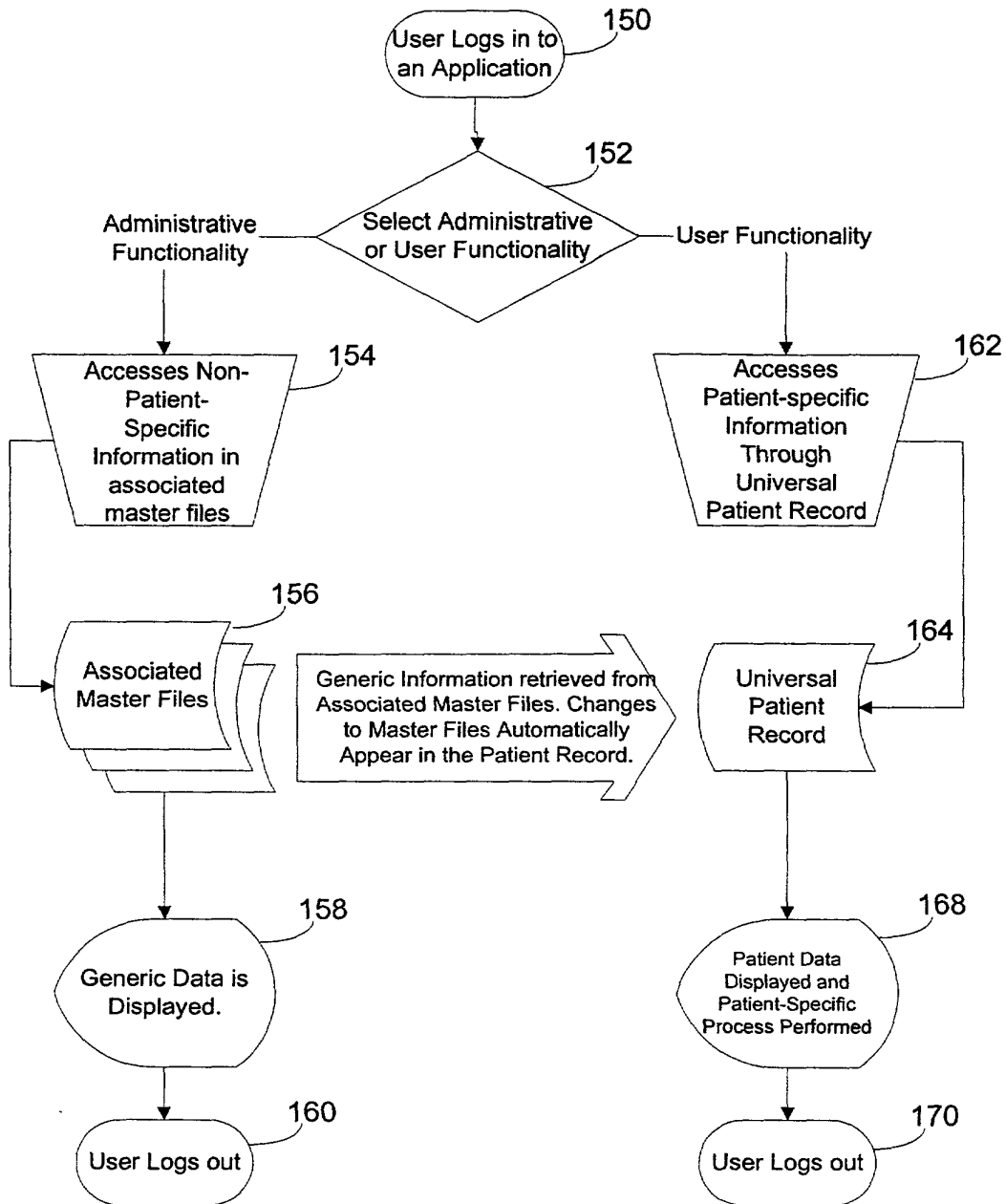114

116

118

120

122

124

100

Figure 3

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Associated master files
ideally located in a central data repository

Demographics Master Files
Containing non-patient specific information on demographics topics. —— 132

Security Master Files
Containing non-patient specific information on security topics —— 134

Patient Accounting Master Files
Containing non-patient specific information on accounting topics —— 136

Risk Management Master Files
Containing non-patient specific information on risk management topics —— 138

Medical Record Master Files
Containing non-patient specific information on medical record topics —— 140

Scheduling Master Files
Containing non-patient specific information on scheduling topics —— 142

Hospital Structure Master files
Containing non-patient specific information on hospital structure topics —— 144

130

Figure 4

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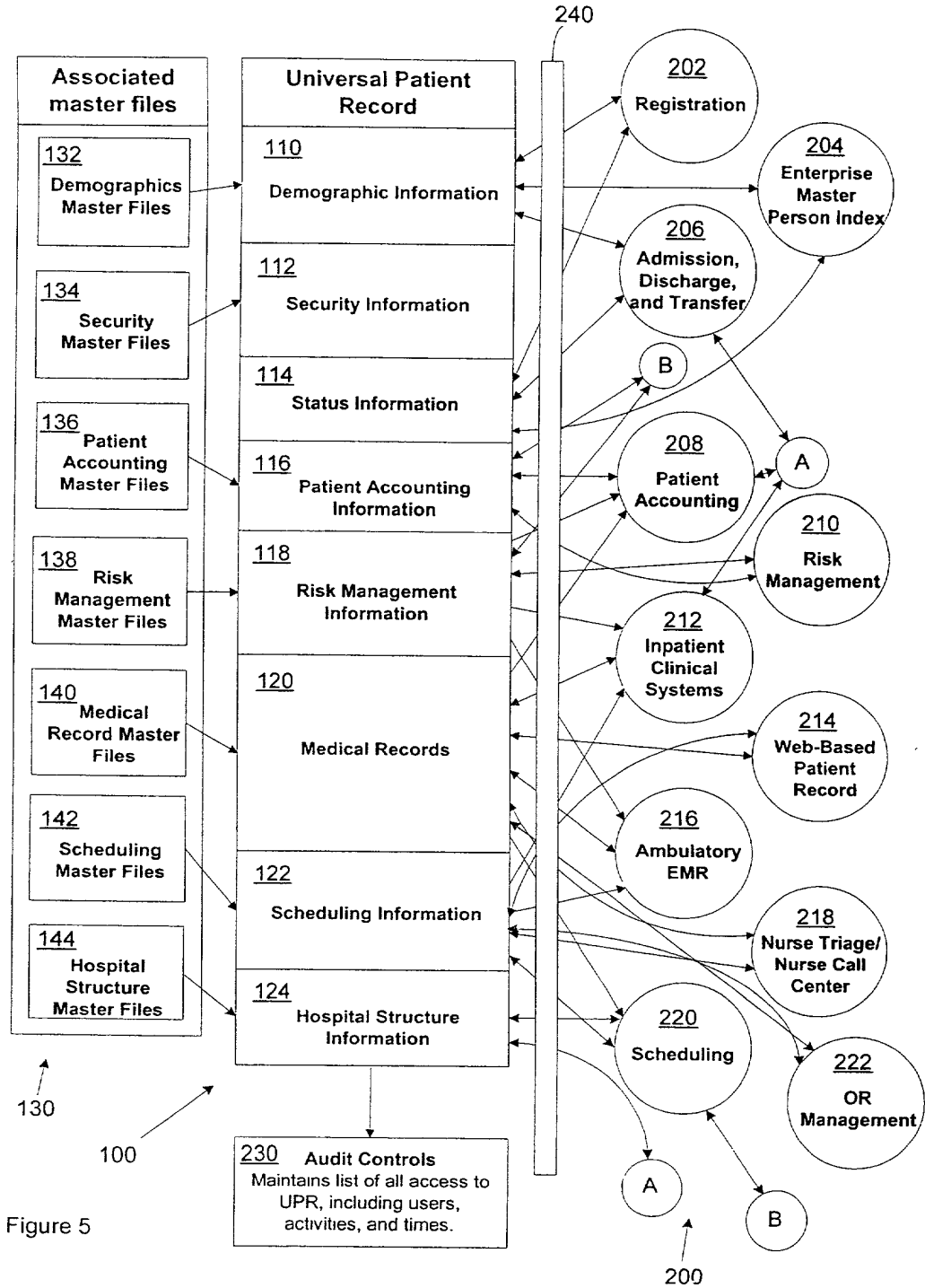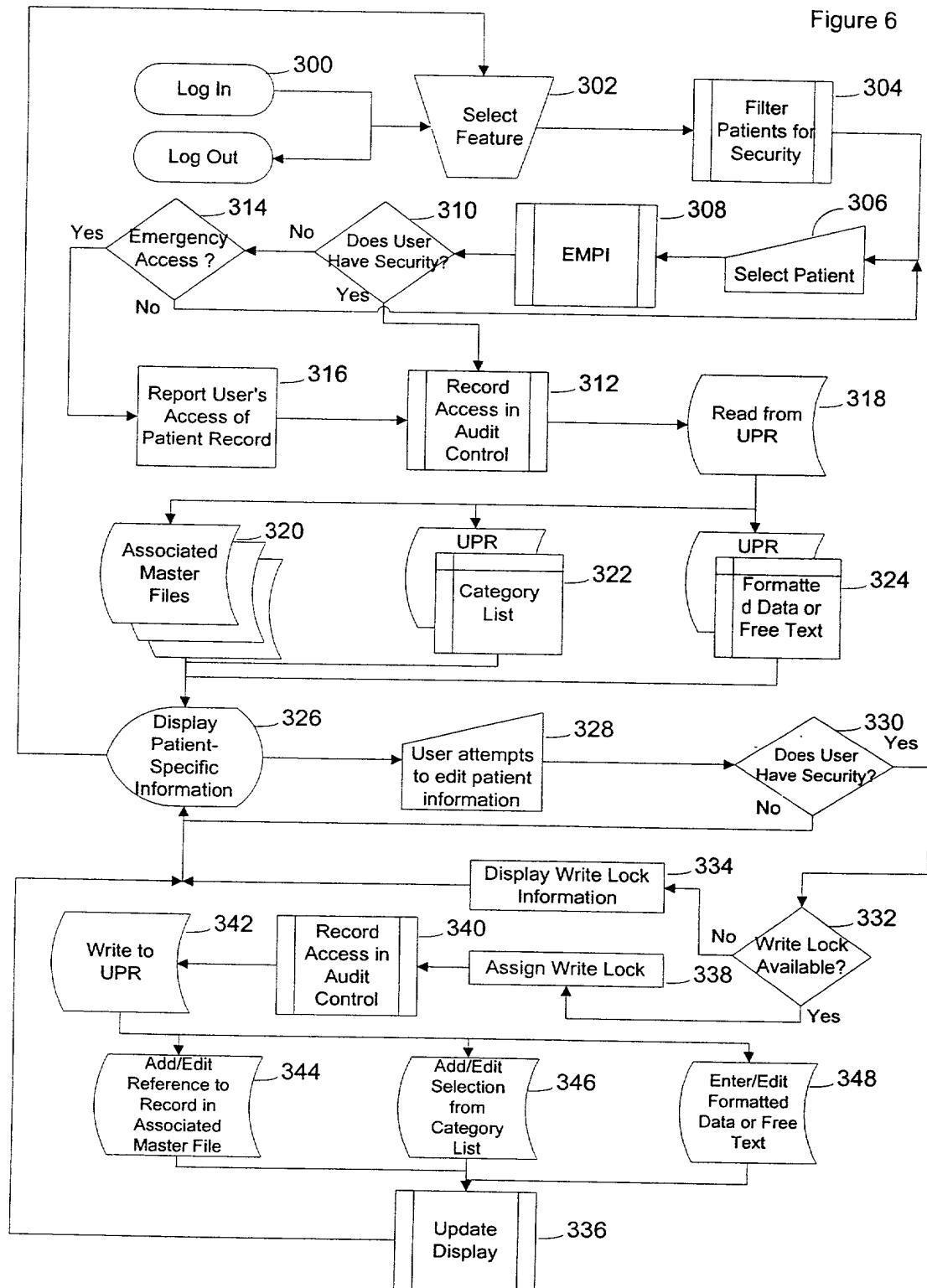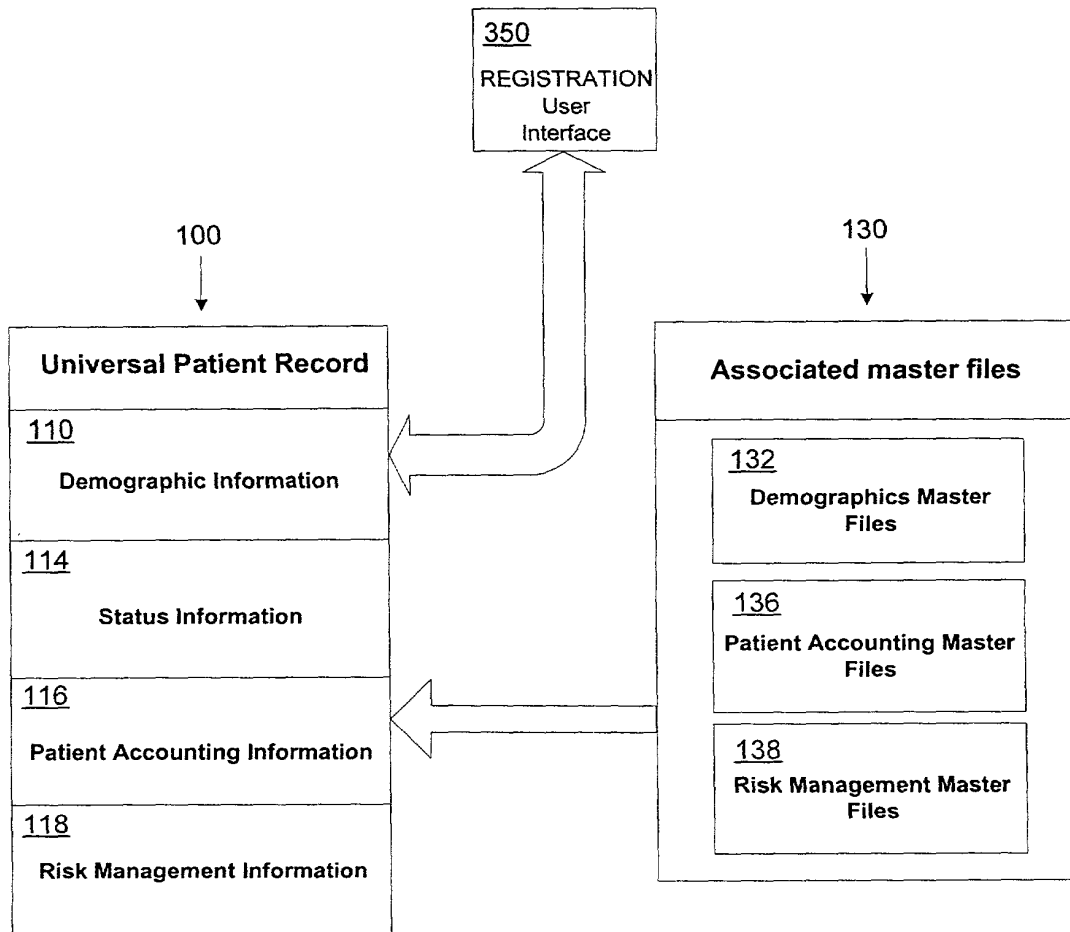Inventor: Carl D. Dvorak, et al.
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User Logs in to an Application — 150

Select Administrative or User Functionality — 152

Administrative Functionality

User Functionality

Accesses Non-Patient-Specific Information in associated master files — 154

Accesses Patient-specific Information Through Universal Patient Record — 162

Associated Master Files — 156

Generic Information retrieved from Associated Master Files. Changes to Master Files Automatically Appear in the Patient Record.

Universal Patient Record — 164

Generic Data is Displayed. — 158

Patient Data Displayed and Patient-Specific Process Performed — 168

User Logs out — 160

User Logs out — 170

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240

Associated master files

Universal Patient Record

132 Demographics Master Files

134 Security Master Files

136 Patient Accounting Master Files

138 Risk Management Master Files

140 Medical Record Master Files

142 Scheduling Master Files

144 Hospital Structure Master Files

110 Demographic Information

112 Security Information

114 Status Information

116 Patient Accounting Information

118 Risk Management Information

120 Medical Records

122 Scheduling Information

124 Hospital Structure Information

202 Registration

204 Enterprise Master Person Index

206 Admission, Discharge, and Transfer

B

208 Patient Accounting

A

210 Risk Management

212 Inpatient Clinical Systems

214 Web-Based Patient Record

216 Ambulatory EMR

218 Nurse Triage/ Nurse Call Center

220 Scheduling

222 OR Management

A

B

130

100

230 Audit Controls
Maintains list of all access to
UPR, including users,
activities, and times.

Figure 5

200

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Records
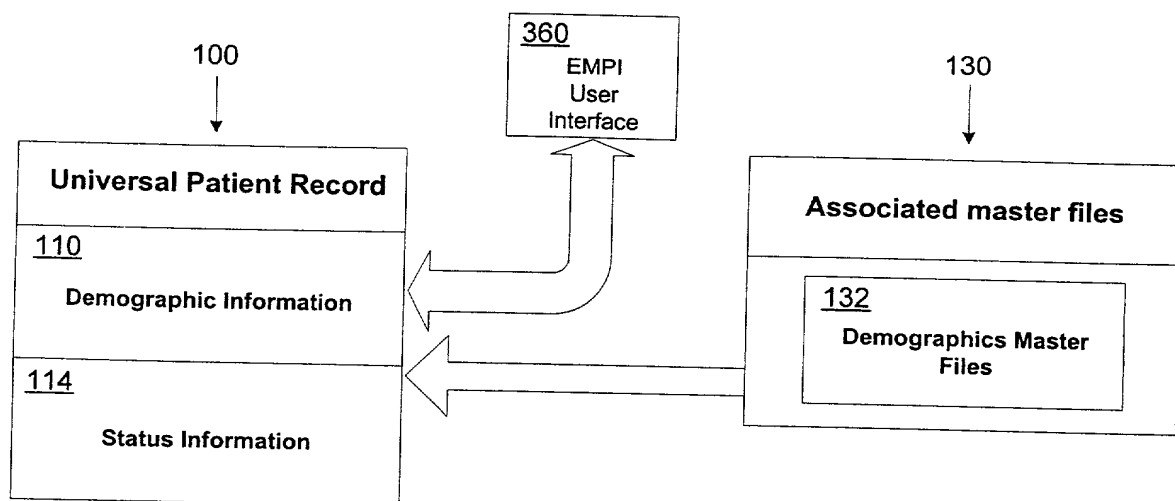Inventor: Carl D. Dvorak, et al.
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Figure 6

Figure 7

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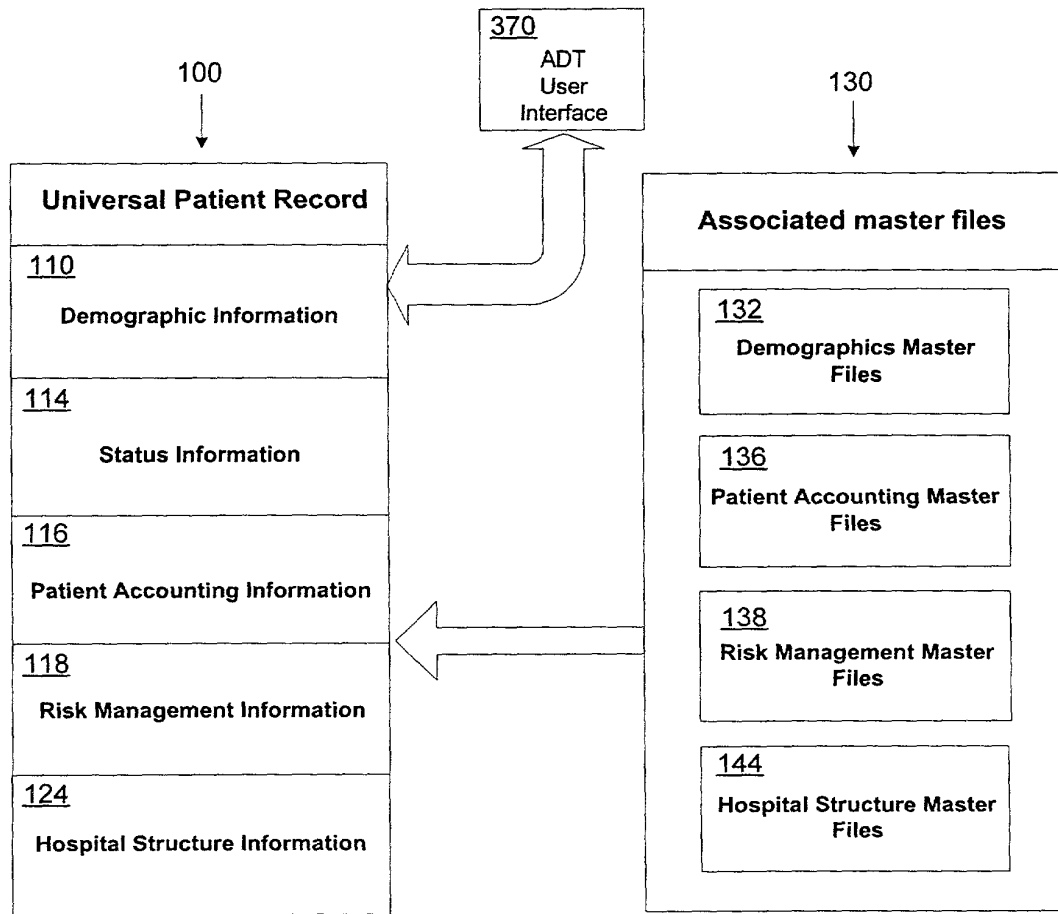
350

REGISTRATION
User
Interface

100

130

Universal Patient Record

110

Demographic Information

114

Status Information

116

Patient Accounting Information

118

Risk Management Information

Associated master files

132

Demographics Master
Files

136

Patient Accounting Master
Files

138

Risk Management Master
Files

Figure 8

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360
EMPI
User
Interface

130

Universal Patient Record

110

Demographic Information

114

Status Information

Associated master files

132

**Demographics Master
Files**

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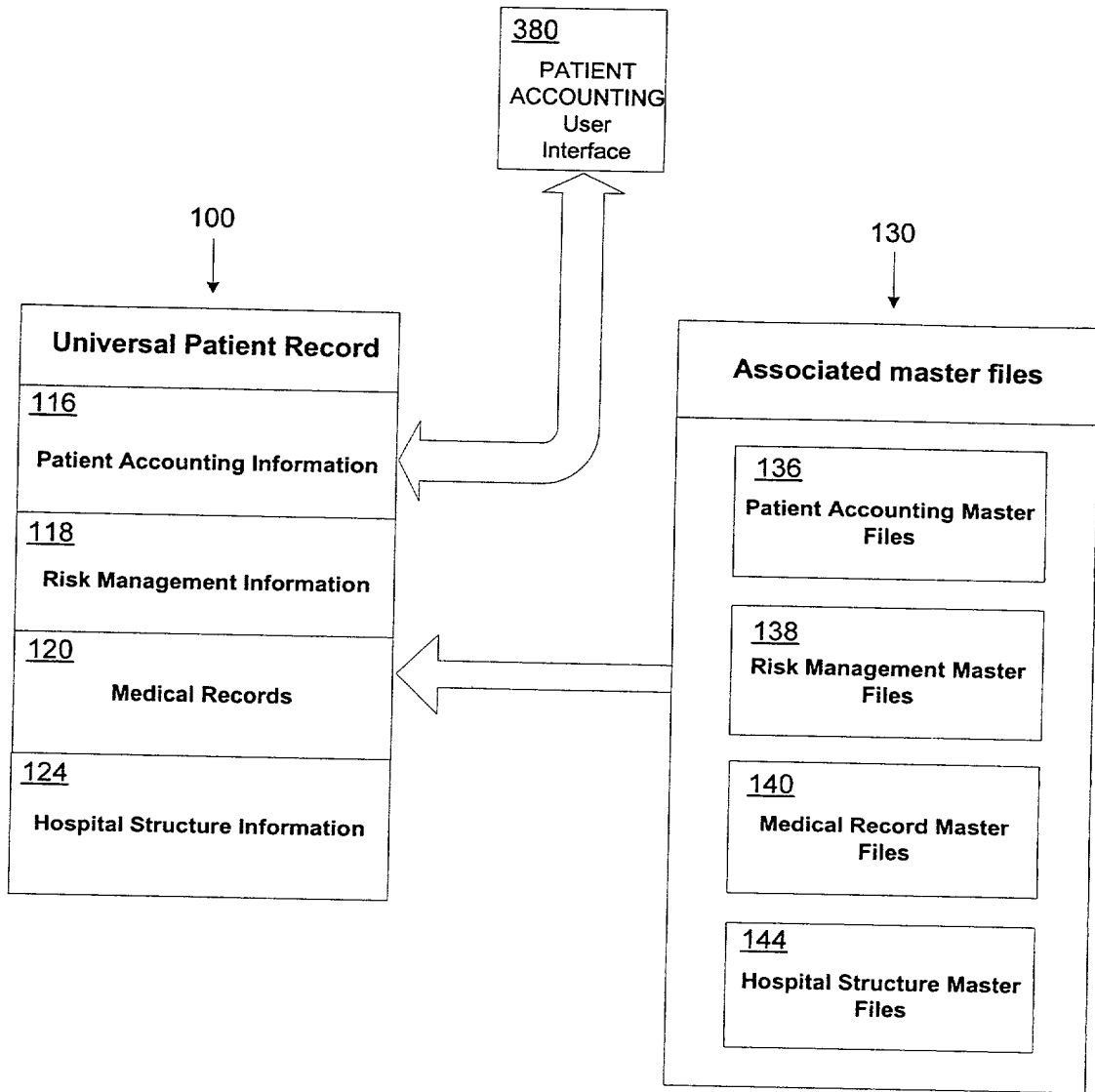Inventor: Carl D. Dvorak, et al.
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Figure 9

370
ADT
User
Interface

100

130

Universal Patient Record

110

Demographic Information

114

Status Information

116

Patient Accounting Information

118

Risk Management Information

124

Hospital Structure Information

Associated master files

132

Demographics Master Files

136

Patient Accounting Master Files

138

Risk Management Master Files

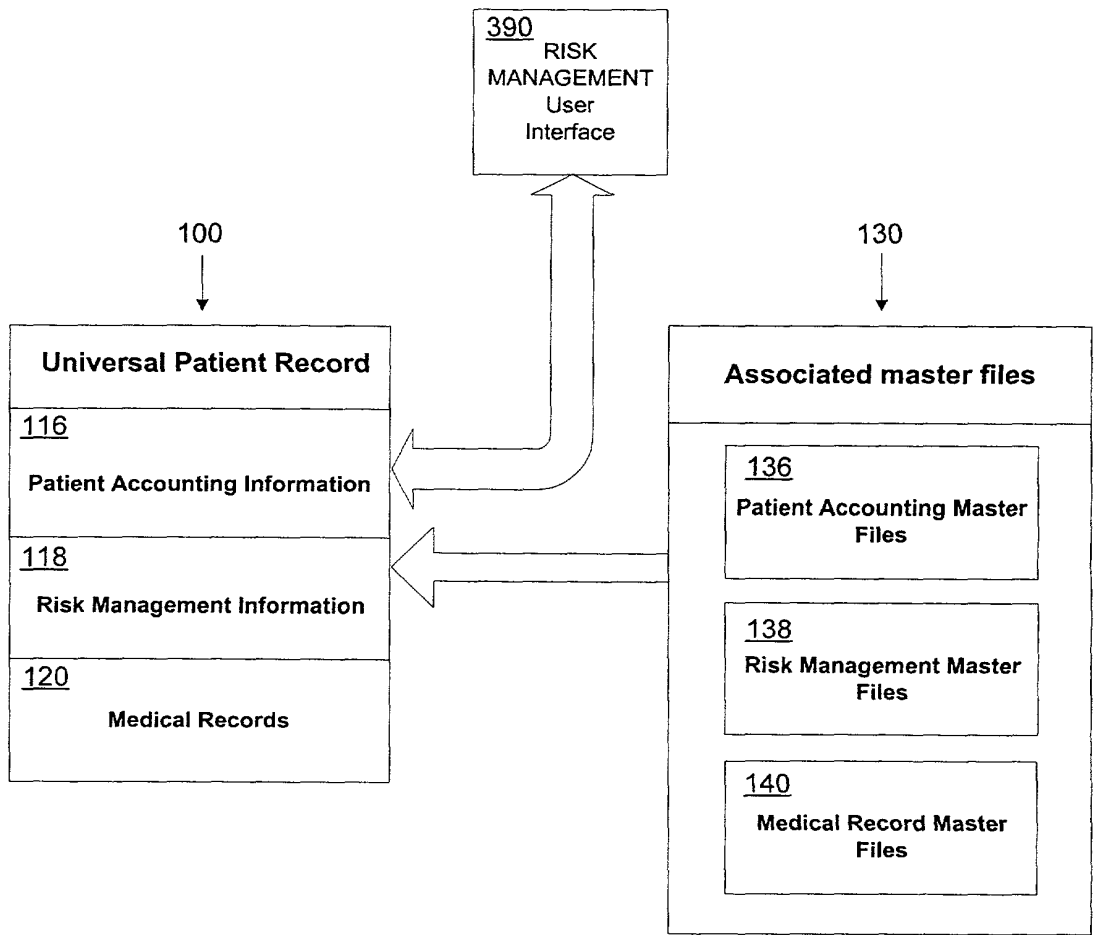**144**

Hospital Structure Master Files

Figure 10

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380

PATIENT
ACCOUNTING
User
Interface

100

130

Universal Patient Record

116

Patient Accounting Information

118

Risk Management Information

120

Medical Records

124

Hospital Structure Information

Associated master files

136

Patient Accounting Master Files

138

Risk Management Master Files

140

Medical Record Master Files

144

Hospital Structure Master Files

Figure 11

390
RISK
MANAGEMENT
User
Interface

100

130

Universal Patient Record

116

Patient Accounting Information

118

Risk Management Information

120

Medical Records

Associated master files

136

**Patient Accounting Master
Files**

138

**Risk Management Master
Files**

140

**Medical Record Master
Files**

Figure 12

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Inventor: Carl D. Dvorak, et al
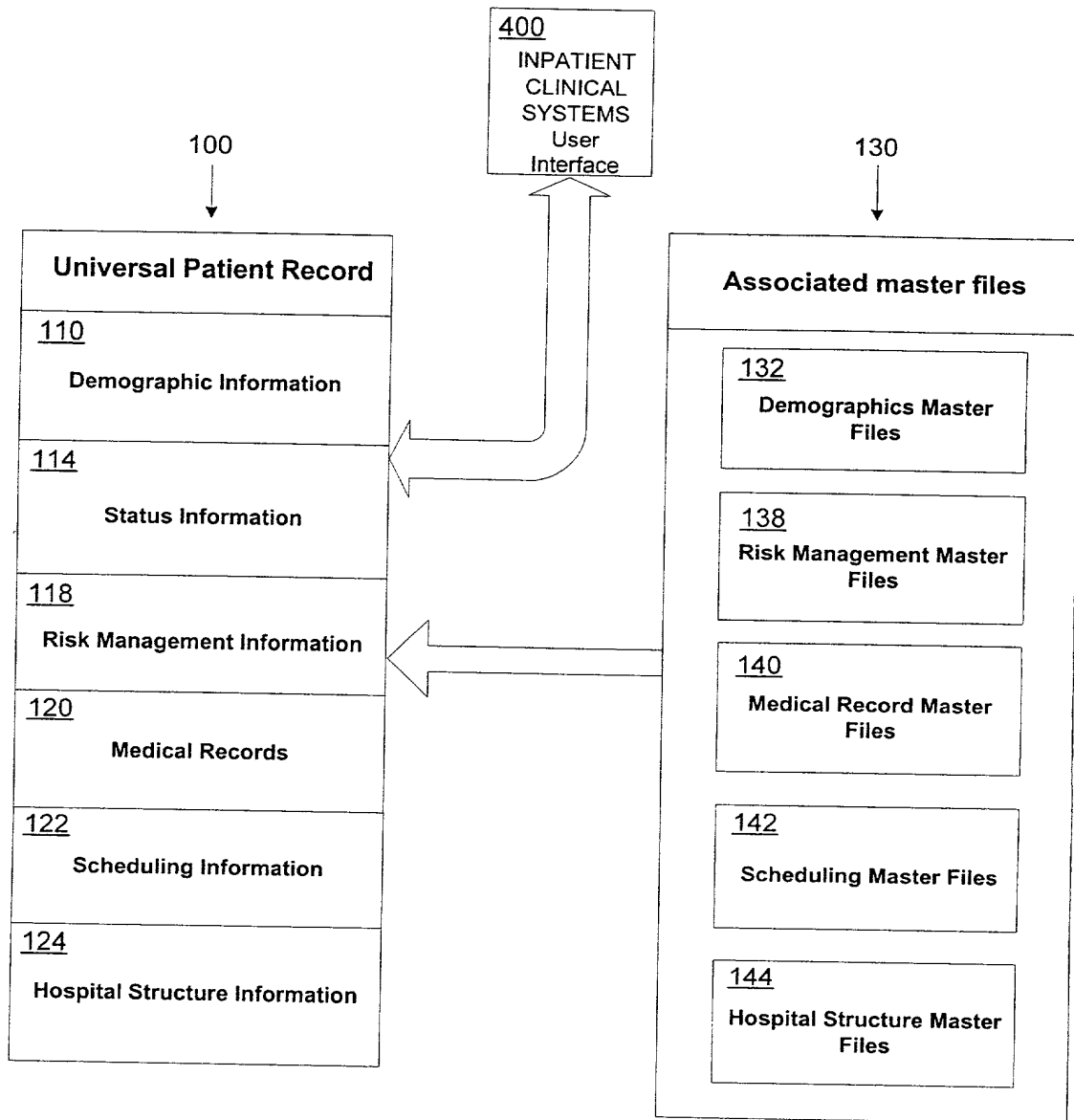Figure 12
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400
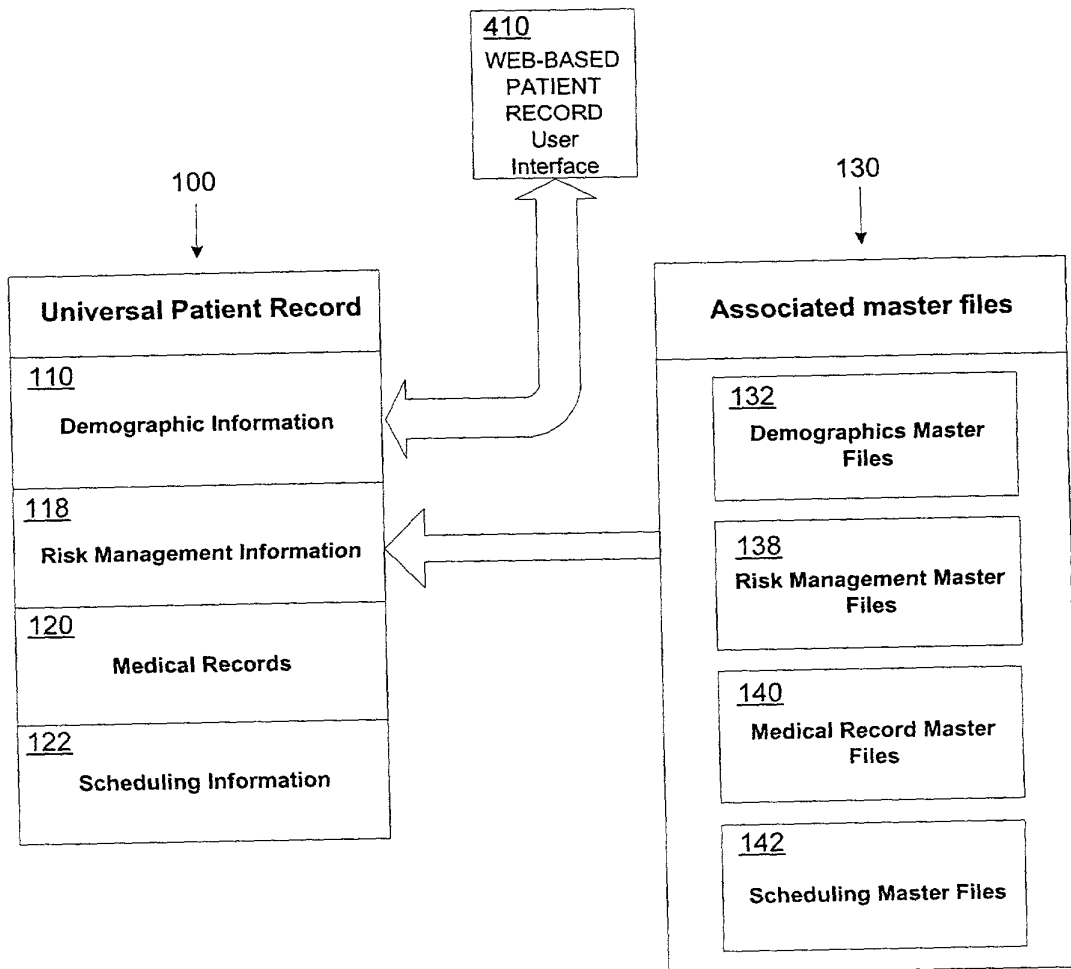### INPATIENT CLINICAL SYSTEMS User Interface

100

130

Universal Patient Record

110
Demographic Information

114
Status Information

118
Risk Management Information

120
Medical Records

122
Scheduling Information

124
Hospital Structure Information

Associated master files

132
Demographics Master Files

138
Risk Management Master Files

140
Medical Record Master Files

142
Scheduling Master Files

144
Hospital Structure Master Files

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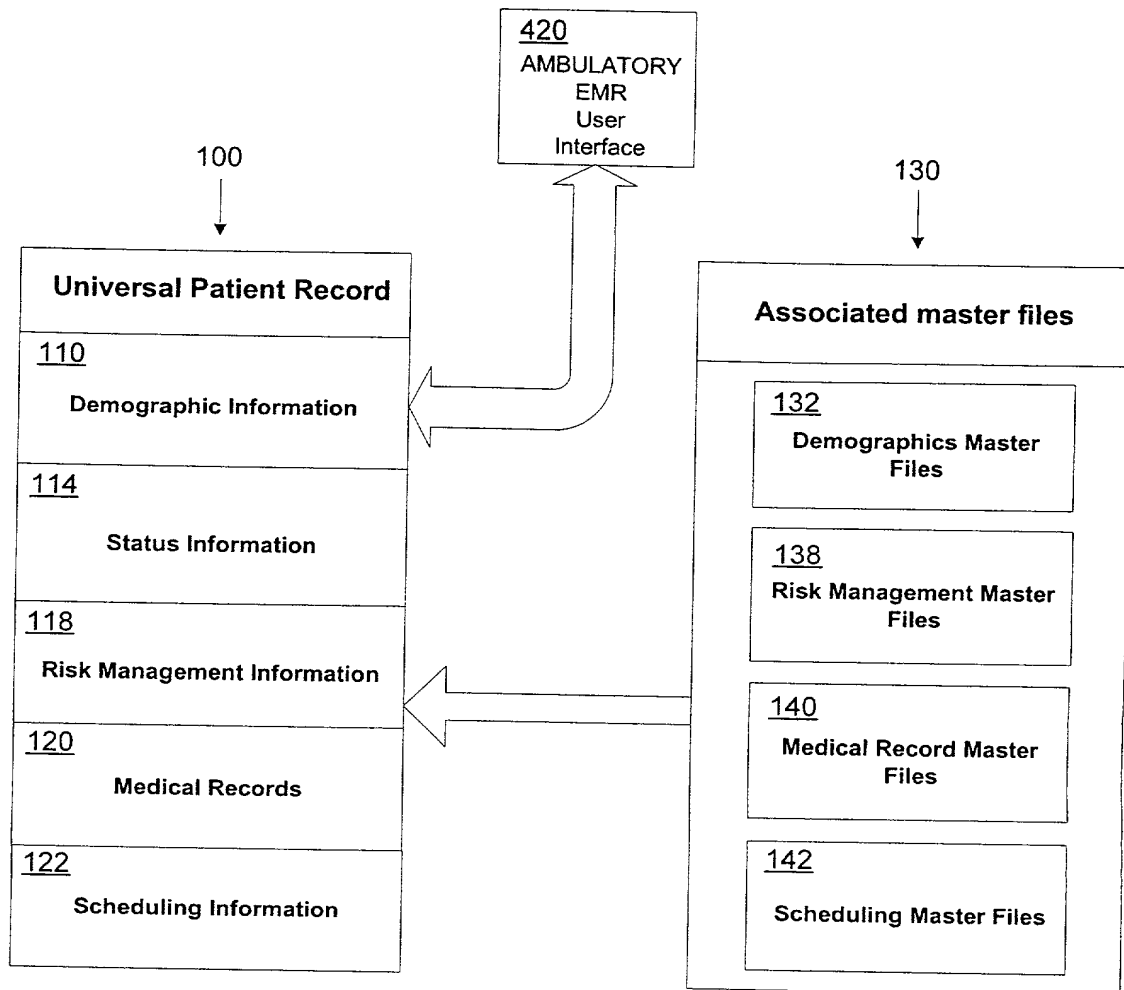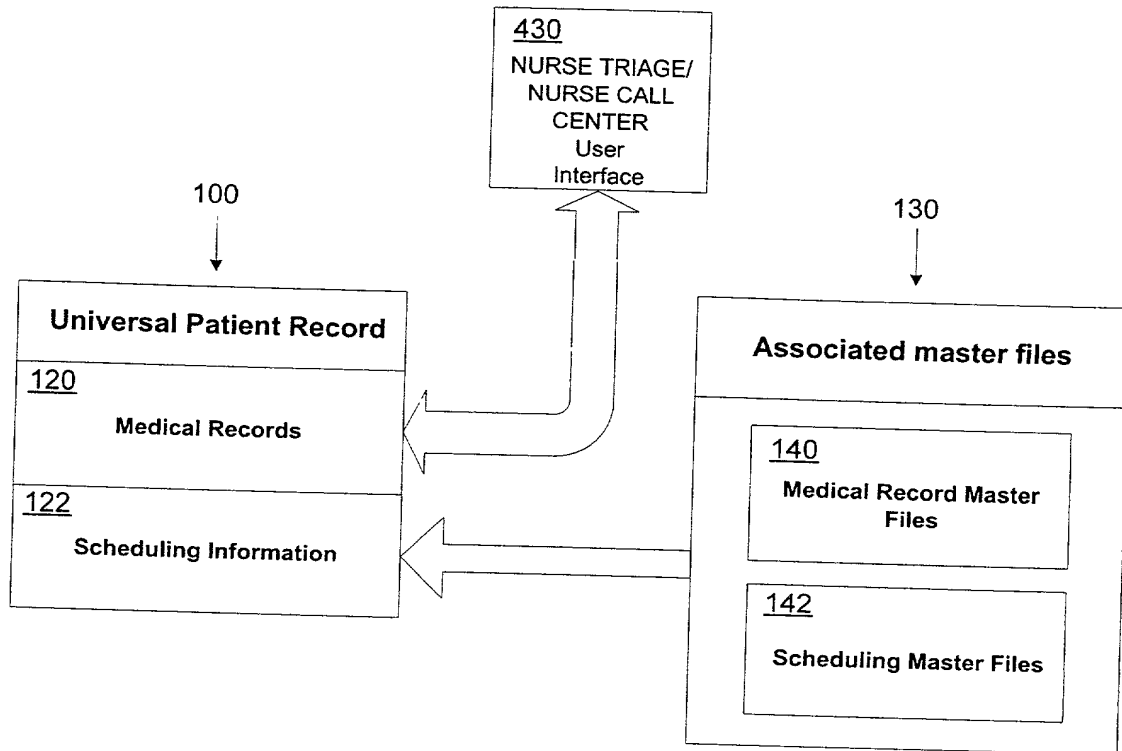Figure 13
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Figure 14

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420
AMBULATORY
EMR
User
Interface

100

130

Universal Patient Record

110
Demographic Information

114
Status Information

118
Risk Management Information

120
Medical Records

122
Scheduling Information

Associated master files

132
Demographics Master Files

138
Risk Management Master Files

140
Medical Record Master Files

142
Scheduling Master Files

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440
SCHEDULING
User
Interface

100

130

Universal Patient Record

114
Status Information

116
Patient Accounting Information

118
Risk Management Information

120
Medical Records

122
Scheduling Information

Associated master files

136
Patient Accounting Master Files

138
Risk Management Master Files

140
Medical Record Master Files

142
Scheduling Master Files

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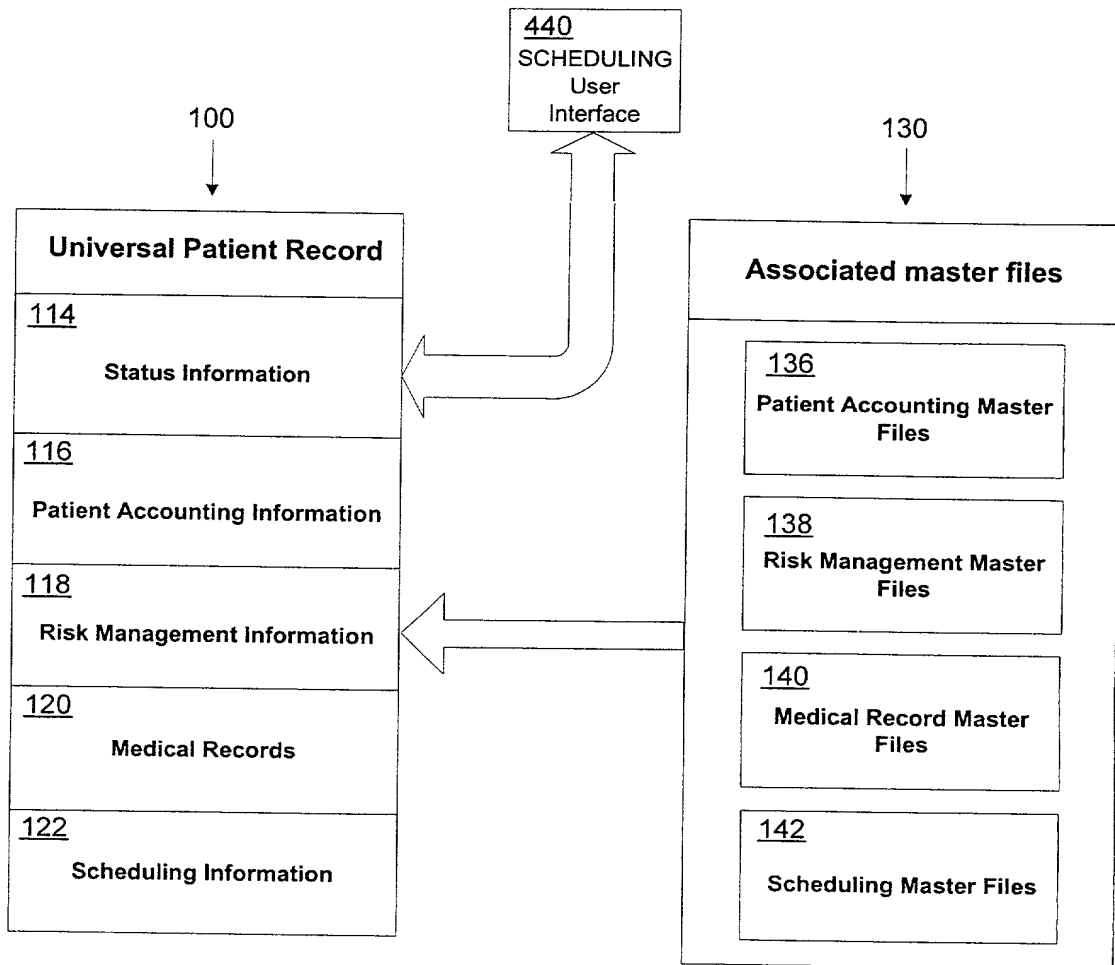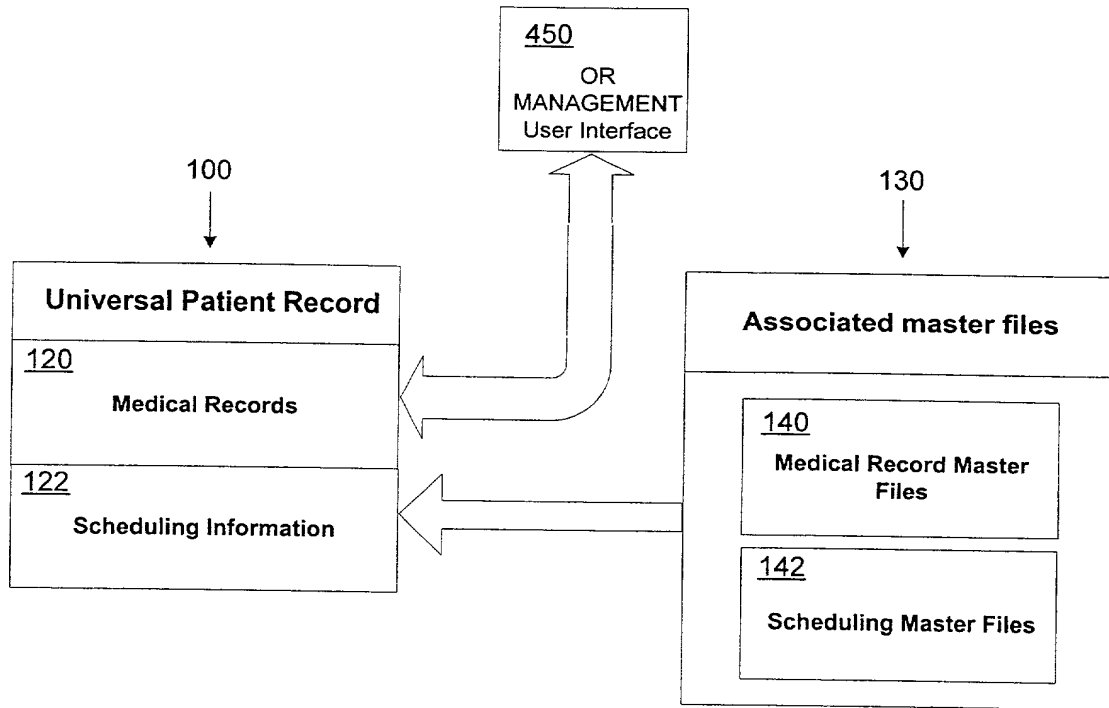Inventor. Carl D. Dvorak, et al
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Figure 17

450

OR
MANAGEMENT
User Interface

100

130

Universal Patient Record

120

Medical Records

122

Scheduling Information

Associated master files

140

Medical Record Master Files

142

Scheduling Master Files

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Fig. 18